

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 10370-1 (1982): Dimensions of mounting accessories of pot cores for wired circuits, Part 1: For pot cores of size 26 x 16(mm) [LITD 5: Semiconductor and Other Electronic Components and Devices]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

BLANK PAGE



IS : 10370 (Part I) - 1982

Indian Standard

DIMENSIONS OF
MOUNTING ACCESSORIES OF
POT CORES FOR WIRED CIRCUITS
PART I FOR POT CORES OF SIZE 26 × 16 mm

UDC 621.318.132.042.1-218 : 006.78



© Copyright 1983

INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Indian Standard

DIMENSIONS OF MOUNTING ACCESSORIES OF POT CORES FOR WIRED CIRCUITS

PART I FOR POT CORES OF SIZE 26 × 16 mm

Magnetic Components and Ferrite Materials
Sectional Committee, LTDC 13

Chairman

*DR J. VAID

Representing

Peico Electronics and Electricals Ltd, Bombay; and
The Radio Electronic & Television Manufacturers' Association, Bombay

Members

SHRI V. M. BAPAT (Alternate to Dr J. Vaid)	Peico Electronics & Electricals Ltd, Bombay
SHRI J. P. BHARGAVA	National Research Development Corporation of India, New Delhi
SHRI R. KRISHNAN (Alternate)	National Physical Laboratory (CSIR), New Delhi
DR B. K. DAS	Elpro International Ltd, Pune
DR R. B. TRIPATHI (Alternate)	Electronic Components Industries Association (ELCINA), New Delhi
SHRI A. N. DHOOT	Solid State Physics Laboratory (Ministry of Defence), Delhi
SHRI D. P. LAGHATE (Alternate)	
SHRI V. GOPALAKRISHNAN	
DR K. K. LAROKIA	
SHRI PRAN KRISHAN (Alternate)	Morris Electronics Ltd, Pune
SHRI A. K. MAJUMDAR	Semiconductors Ltd, Pune
SHRI A. PINTO (Alternate)	
DR R. K. MISRA	Central Electronics Ltd, Sahibabad
DR T. R. BHAT (Alternate)	
SHRI N. R. NAIR	Ministry of Railways
SHRI M. I. ALAM (Alternate)	
SHRI L. R. PARTHASARTHY	Permanent Magnets Ltd, Bombay
SHRI RAVI KUMAR (Alternate)	
SHRI S. K. PURI	
SHRI A. M. SARAF (Alternate)	

(Continued on page 2)

*Dr J. Vaid was the Chairman for the meeting in which this standard was finalized.

© Copyright 1983

INDIAN STANDARDS INSTITUTION

This publication is protected under the *Indian Copyright Act (XIV of 1957)* and reproduction in whole or in part by any means except with written permission of the publisher shall be deemed to be an infringement of copyright under the said Act.

IS : 10370 (Part I) - 1982

(Continued from page 1)

<i>Members</i>	<i>Representing</i>
DR C. S. R. RAO	All India Radio, New Delhi
SHRI M. K. REWAL	Posts & Telegraphs Department, New Delhi
SHRI R. C. MOHAN (<i>Alternate</i>)	
BRIG T. P. SABHERWAL	Ministry of Defence (DGI)
LT-COL HEMJI AGARWALA (<i>Alternate</i>)	
DR N. S. SATYA MURTHY	Bhabha Atomic Research Centre, Bombay
SHRI R. SOUNDIRARAJAN	Directorate General of Technical Development, New Delhi
SHRI C. K. SREENIVAS	Bharat Electronics Ltd, Bangalore
SHRI R. SOMASEKHARA (<i>Alternate</i>)	
SHRI C. G. SUBRAMANYAN	Electronics Trade & Technology Development Corporation Ltd, New Delhi
SHRI ISHWAR DUTT (<i>Alternate</i>)	
SHRI G. VENKATESWARLU	Ministry of Defence (R & D)
SHRI I. N. BHATIA (<i>Alternate</i>)	
SHRI B. M. SHANKAR PRASAD (<i>Alternate</i>)	
SHRI B. VIRESALINGAM	Indian Telephone Industries Ltd, Bangalore
SHRI H. S. ANANTHANARAYANA RAO (<i>Alternate</i>)	
SHRI R. C. JAIN, Head (Electronics)	Director General, ISI (<i>Ex-officio Member</i>)

Secretary

SHRI Y. S. ARYA
Deputy Director (Electronics), ISI

Indian Standard

DIMENSIONS OF MOUNTING ACCESSORIES OF POT CORES FOR WIRED CIRCUITS

PART I FOR POT CORES OF SIZE 26 × 16 mm

0. FOREWORD

0.1 This Indian Standard (Part I) was adopted by the Indian Standards Institution on 30 November 1982, after the draft finalized by the Magnetic Components and Ferrite Materials Sectional Committee had been approved by the Electronics and Telecommunication Division Council.

0.2 The object of this standard is to specify the dimensions of mounting accessories of pot-cores made of ferromagnetic oxides.

0.3 This standard is intended to be one of the series of Indian Standards on the dimensions of mounting accessories of pot-cores of various sizes for wired circuits.

0.4 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard (Part I) covers following mounting accessories to be used with the pot cores for wired circuits and of size 26 × 16 mm (see IS : 6235-1971†):

- a) Bobbins,
- b) Clamp for pot core,

*Rules for rounding off numerical values (revised).

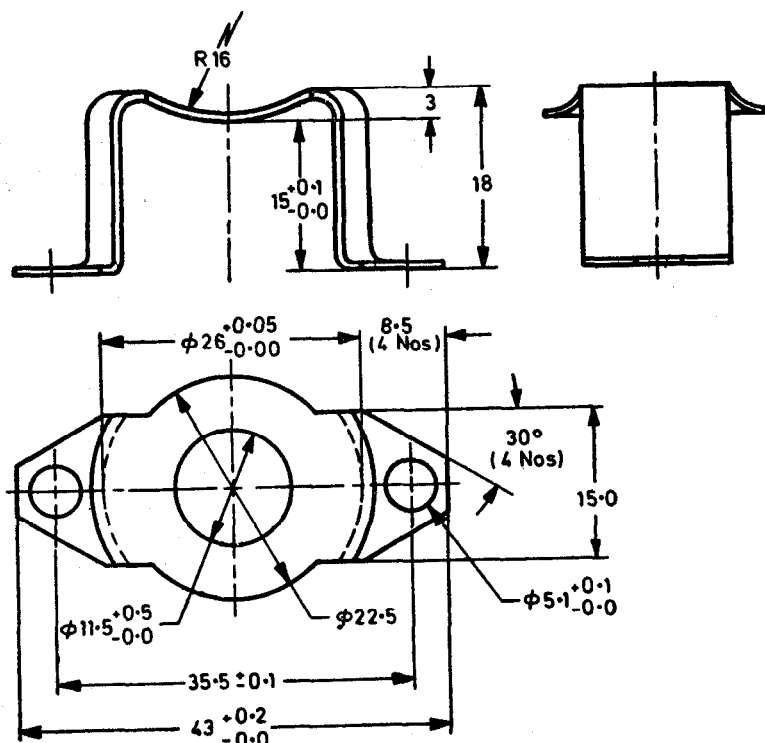
†Dimensions of pot cores made of ferromagnetic oxides and associated parts.

- c) Base plate for pot core clamp,
- d) Coupling nut and screw for pot core clamp, and
- e) Assembly of pot core clamp.

2. DIMENSIONS

2.1 Bobbins — Dimensions of bobbins shall be according to Appendix A of IS : 6235-1971*.

2.2 Clamp for Pot Core — Dimensions of clamp for pot core shall be as given in Fig. 1.



All dimensions in millimetres.

General tolerance = ± 0.2 mm

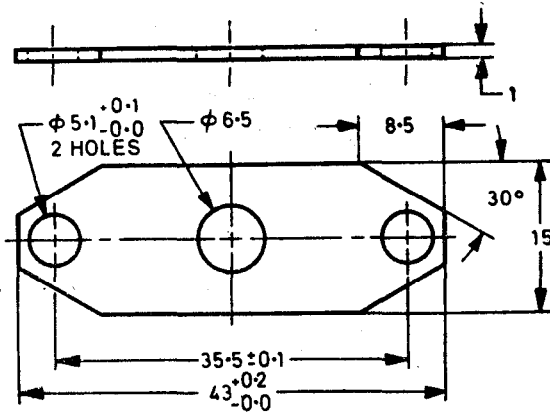
Bending radius on outside should not exceed 1.0 R in any case.

FIG. 1 CLAMP FOR POT CORE

*Dimensions of pot cores made of ferromagnetic oxides and associated parts.

2.2.1 The material used for clamp shall be half hard brass, of alloy designation CuZn 37 in accordance with 5.1 of IS : 410-1977*, 0.5 mm thick with suitable non-magnetic plating.

2.3 Base Plate for Pot Core Clamp — Dimensions of base plate for pot core clamp shall be as given in Fig. 2.



All dimensions in millimetres.

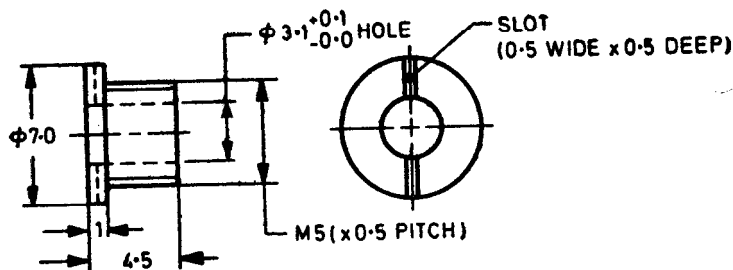
General tolerance = ± 0.2 mm

Material = Brass half hard 1 mm thick, with suitable non-magnetic plating.

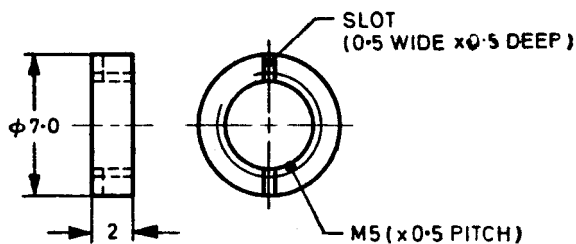
FIG. 2 BASE PLATE FOR POT CORE CLAMP

*Specification for cold rolled brass sheet, strip and foil (third revision).

2.4 Coupling Nut and Screw for Pot Core Clamp — Dimensions of coupling nut and screw for pot core clamp shall be as given in Fig. 3.



COUPLING SCREW



COUPLING NUT

All dimensions in millimetres.

General tolerance = ± 0.2 mm

Material = Brass with suitable non-magnetic plating.

FIG. 3 COUPLING NUT AND SCREW FOR POT CORE CLAMP

2.5 Assembly of Pot Core Clamp — Assembly drawing for pot core clamp is given in Fig. 4.

NOTE — Nickel-silver spring/yoke of 0.4 mm thickness may also be used in place of clamp for mounting assembly.

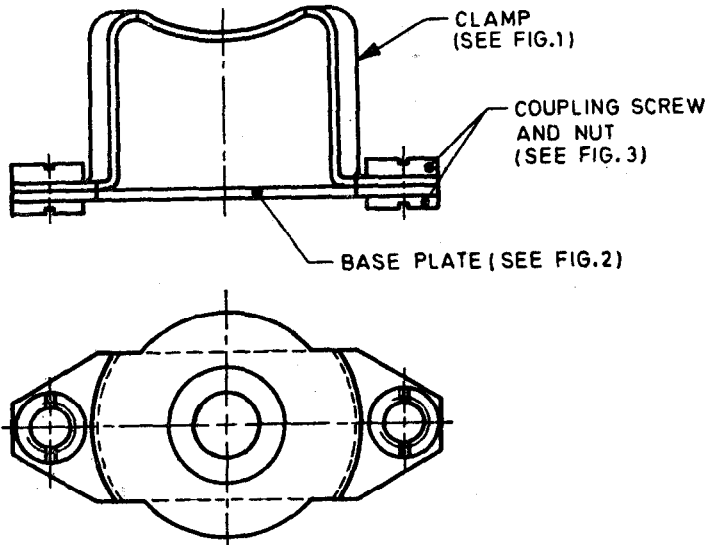


FIG. 4 ASSEMBLY DRAWING FOR POT CORE CLAMP

INTERNATIONAL SYSTEM OF UNITS (SI UNITS)

Base Units

QUANTITY	UNIT	SYMBOL
Length	metre	m
Mass	kilogram	kg
Time	second	s
Electric current	ampere	A
Thermodynamic temperature	kelvin	K
Luminous intensity	candela	cd
Amount of substance	mole	mol

Supplementary Units

QUANTITY	UNIT	SYMBOL
Plane angle	radian	rad
Solid angle	steradian	sr

Derived Units

QUANTITY	UNIT	SYMBOL	DEFINITION
Force	newton	N	$N = 1 \text{ kg.m/s}^2$
Energy	joule	J	$1 \text{ J} = 1 \text{ N.m}$
Power	watt	W	$1 \text{ W} = 1 \text{ J/s}$
Flux	weber	Wb	$1 \text{ Wb} = 1 \text{ V.s}$
Flux density	tesla	T	$1 \text{ T} = 1 \text{ Wb/m}^2$
Frequency	hertz	Hz	$1 \text{ Hz} = 1 \text{ c/s (s}^{-1}\text{)}$
Electric conductance	siemens	S	$1 \text{ S} = 1 \text{ A/V}$
Electromotive force	volt	V	$1 \text{ V} = 1 \text{ W/A}$
Pressure, stress	pascal	Pa	$1 \text{ Pa} = 1 \text{ N/m}^2$